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From the INTERNATIONAL SEARCHING AUTHORITY

MYERS, BIGEL, SIBLEY & SAJOVEC, L.L.P. Attn. BENNETT, V. P.O.Box 37428 Raleigh, N.C. 27627 UNITED STATES OF AMERICA

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|DS # 15

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

UNITED STATES OF THE COLUMN	
	Date of mailing (day/month/year) 22/12/1998
Applicant's or agent's file reference 5051.401.W0	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 98/ 16344	International filing date (day/month/year) 05/08/1998
Applicant	
NORTH CAROLINA STATE UNIVERSITY et al.	

1.	X	The appl	icant is hereby n	otified that the International Search Report has been established and is transmitted herewith.	
-		Filing of The appl	amendments a icant is entitled,	nd statement under Article 19. If he so wishes, toamend the claims of the International Application (see Rule 46):	
		When?	The time limit for International Se	r filing such amendments is normally 2 months from the date of transmittal of the arch Report; however, for more details, see the notes on the accompanying sheet.	
		Where?	Directly to the	International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35	
		For mor	e detailed instr	uctions, see the notes on the accompanying sheet.	
2.		The app Article 1	licant is hereby r 7(2)(a) to that ef	otified that no International Search Report will be established and that the declaration under ect is transmitted herewith.	
3.				est against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:	
		the ap	e protest togethe plicants's reques	r with the decision thereon has been transmitted to the International Bureau together with the it to forward the texts of boththe protest and the decision thereon to the designated Offices.	
		no	decision has be	en made yet on the protest; the applicant will be notified as soon as a decision is made.	
4.	Fur	ther actic	on(s): The app	licant is reminded of the following:	
	lf Dr	the applic iority clair	ant wishes to av m. must reach th	the priority date, the international application will be published by the International Bureau. bid or postponepublication, a notice of withdrawal of the international application, or of the e International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the preparations for international publication.	
	W	ishes to p	ostpone the entr	iority date, a demand for international preliminary examination must be filed if the applicant y into the national phase until 30 months from the priority date (in some Offices even later).	
	b,	efore all d	lesionated Office	iority date, the applicant must performthe prescribed acts for entry into the national phase s which have not been elected in the demand or in a later election within 19 months from the elected because they are not bound by Chapter II.	

Name and mailing address of the	International Searching Authority
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European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Mireille Claudepierre



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 5051.401.W0	FOR FURTHER see Notification of (Form PCT/ISA/2)	f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 98/16344	05/08/1998	06/08/1997
Applicant		
NORTH CAROLINA STATE UNIVE	ERSITY et al.	
This International Search Report has beer according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists X It is also accompanied by a copy	of a total of3 sheets. y of each priorart document cited in this report	
Certain claims were found un	searchable (see Box I).	
2. Unity of invention is lacking(s	see Box II).	
3. X The international application con international search was carried	ntains disclosure of a nucleotide and/or ami n dout on the basis of the sequence listing	o acid sequence listing and the
	d with the international application.	
furr	nished by the applicant separately from the inte	
	but not accompanied by a statement to the matter going beyond the disclosure in the	e international application as filed.
☐ Tra	anscribed by this Authority	
4. With regard to the title, X the	e text is approved as submitted by the applican	ıt
	e text has been established by this Authority to	read as follows:
5. With regard to the abstract,	e text is approved as submitted by the applicar	nt
	s text has been established, according to Rule	38.2(b), by this Authority as it appears in
Bo Se	ox III. The applicant may, within one month from earch Report, submit comments to this Authorit	ty.
6. The figure of the drawings to be pu	blished with the abstract is:	
Figure No as	s suggested by the applicant.	None of the figures.
be	ecause this tigure beπer characterizes the inve	HUOTI.
6. The figure of the drawings to be pulped in the figure No as the beautiful	earch Report, submit comments to this Authorit blished with the abstract is:	ty. $oxed{\chi}$ None of the figures.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

TIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C12N15/82 C12N5/10

A01H5/00

C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	WO 97 27207 A (NORTH CAROLINA STATE UNIVERSITY) 31 July 1997 see page 2, line 9 - line 34 see page 6, line 16 - page 7, line 29 see page 12, line 27 - page 13, line 28 see page 21, line 3 - page 25, line 21	20,21

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
15 December 1998	22/12/1998
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Montero Lopez, B

INTERESTIONAL SEARCH REPORT

ational Application No
PCT/US 98/16344

X GEORGE C. ALLEN ET AL.: "High-level transgene expression in plant cells: Effects of a strong Scaffold Attachment Region from Tobacco" THE PLANT CELL, vol. 8, May 1996, pages 899-913, XP002072398 A see page 900, left-hand column, paragraph 1 - page 909, left-hand column, paragraph 2 wo 94 07902 A (NORTH CAROLINA STATE UNIVERSITY) 14 April 1994 see page 2, line 5 - page 3, line 21 see page 4, line 1 - page 5, line 17 see page 10, line 5 - page 11, line 5	Relevant to claim No.
transgene expression in plant cells: Effects of a strong Scaffold Attachment Region from Tobacco" THE PLANT CELL, vol. 8, May 1996, pages 899-913, XP002072398 see page 900, left-hand column, paragraph 2 see page 908, right-hand column, paragraph 1 - page 909, left-hand column, paragraph 2 WO 94 07902 A (NORTH CAROLINA STATE UNIVERSITY) 14 April 1994 see page 2, line 5 - page 3, line 21 see page 4. line 1 - page 5, line 17	
see page 908, right-hand column, paragraph 1 - page 909, left-hand column, paragraph 2 WO 94 07902 A (NORTH CAROLINA STATE UNIVERSITY) 14 April 1994 see page 2, line 5 - page 3, line 21 see page 4, line 1 - page 5, line 17	20,21 1-19
UNIVERSITY) 14 April 1994 see page 2, line 5 - page 3, line 21 see page 4, line 1 - page 5, line 17	
	1-19

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INTERMITIONAL SEARCH REPORT

Information on patent family members

PCT/US 98/16344

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9727207 A	31-07-1997	US 5773695 A AU 2246997 A	30-06-1998 20-08-1997
WO 9407902 A	14-04-1994	AU 673859 B AU 5165593 A CA 2147006 A EP 0663921 A US 5773689 A	28-11-1996 26-04-1994 14-04-1994 26-07-1995 30-06-1998